AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

LISTING OF CLAIMS:

1. (Currently amended)   A ~~Data~~data traffic separation method for use in a packet-oriented mobile radio network ~~(GPRS)~~, comprising:

separating~~in which~~ data traffic arising in an access node ~~(GGSN)~~ of the mobile radio network ~~(GPRS) and consisting of~~, the data traffic including a plurality of layer 2 connections ~~(PDP contexts)~~ comprising a plurality of data flows in each case, ~~is separated~~ with respect to connection-specific and/or data flow-specific handling; and

~~is~~ optionally ~~routed~~routing the data traffic proportionately via a processing unit ~~(IP flow handler)~~ performing such handling.

2. (Currently amended)   ~~Method~~ The method in accordance with claim 1, ~~characterized in that,~~ wherein
a control function ~~(S)~~ within the access node ~~(GGSN)~~ decides, based on ~~the basis of~~ the application-specific information and/or the local information of an information unit ~~(internal policy)~~ integrated in an access node ~~(GGSN)~~ whether ~~or not~~ a layer 2 connection ~~(PDP context)~~ is to be routed via the processing unit ~~(IP flow handler)~~ where, based on ~~the basis of~~ the application-specific information and/or the local information, connection-specific and/or data flow-specific handling is carried out in each case.

3. (Currently amended)   ~~Method~~ The method in accordance with claim 2, ~~characterized in that,~~ wherein
when a communication to an application ~~(A)~~ is set up by a subscriber, the application ~~(A)~~ of a policy decision function ~~(PDF)~~ transmits the application-specific information and the policy decision function ~~(PDF)~~ via an interface ~~(2)~~ authorizes the access node ~~(GGSN)~~ of the mobile radio

network ~~(GPRS)~~ to set up one layer 2 connection or a plurality of layer 2 connections ~~(PDP contexts)~~ comprising a plurality of data flows in each case for the requested application ~~(A)~~ and transmits the application-specific information.

4. (Currently amended)   ~~Method~~ The method in accordance with claim 2, ~~characterized in that,~~ w h e r e i n
the application-specific information is routed via an authentication, authorization and accounting server ~~(AAA server), in particular~~ via a remote access dial-in user-server ~~(RADIUS)~~ to the access node ~~(GGSN)~~.

5. (Currently amended)   ~~Method~~ The method in accordance with claim 2, ~~3 or 4,~~ ~~characterized in that,~~ wherein
the application-specific information with respect to connection-specific handling of the layer 2 connection ~~(PDP context)~~ is routed to the access node ~~(GGSN)~~ and the application-specific information with respect to data flow-specific handling of data flows within the layer 2 connection ~~(PDP context)~~ directly to the processing unit ~~(IP flow handler)~~.

6. (Currently amended)   ~~Method~~ The method in accordance with claim 2, ~~3 or 4,~~ ~~characterized in that~~ w h e r e i n
the application-specific information with respect to data flow-specific handling of data flows within a layer 2 connection ~~(PDP context)~~ is routed indirectly via the access node ~~(GGSN)~~ to the processing unit ~~(IP flow handler)~~.

7. (Currently amended)   ~~Method~~ The method in accordance with ~~one of the preceding claims,~~ ~~characterized in that~~ c l a i m 1 , w h e r e i n
the processing unit ~~(IP flow handler)~~ is integrated into the access node ~~(GGSN)~~ of the mobile radio network ~~(GPRS)~~.

8. (Currently amended)   ~~Method~~ The method in accordance with ~~one of the preceding claims,~~ ~~characterized in that~~ c l a i m 1 , w h e r e i n
a GPRS network is used as the mobile radio network.

9. (Currently amended)   ~~Method~~ The method in accordance with ~~one of the claims 2 to 8,~~ ~~characterized in that~~ claim 2, wherein

the billing information is transmitted as the application-specific information.

10. (Currently amended)   ~~Method~~ The method in accordance with ~~one of the claims 2 to 9,~~ ~~characterized in that~~ claim 2, wherein

~~QoS (~~Quality of Service~~)~~ information is transmitted as the application-specific information.

11. (Currently amended)   ~~Method~~ The method in accordance with ~~one of the preceding claims,~~ ~~characterized in that~~ claim 1, wherein

the processing unit ~~(IP flow handler)~~, in the case of a layer 2 connection ~~(PDP context)~~ routed thereto ~~it~~, carries out a data flow-specific separation or filtering and handling.

12. (Currently amended)   ~~Mobile~~ A mobile radio network, comprising: ~~which has at least the~~ ~~following units~~

[[-]] an access node ~~(GGSN)~~ with a control function ~~(S)~~ for separating data traffic arising in an access node ~~(GGSN) consisting of~~ including a plurality of layer 2 connections ~~(PDP contexts)~~ comprising a plurality of data flows in each case in accordance with ~~the~~ predetermined information~~,~~; and

[[-]] a processing unit ~~(IP flow handler)~~ for handling data flows separated by the control function ~~(S)~~ and layer 2 connections ~~(PDP contexts)~~ comprising a plurality of data flows in each case forwarded to the processing unit ~~(IP flow handler)~~.

13. (Currently amended)   ~~Mobile~~ The mobile radio network in accordance with claim 12, ~~characterized in that,~~ wherein

the mobile radio network has a policy decision function ~~(PDF)~~ for receiving, evaluating and ~~the~~ immediate forwarding of the application-specific information to the control function ~~(S)~~ of the access node ~~(GGSN)~~.

14. (Currently amended)   ~~Mobile~~ The mobile radio network in accordance with claim 12 ~~or 13,~~ ~~characterized in that,~~ wherein

the processing unit ~~(IP flow handler)~~ comprises a filter function, which in incoming layer 2
connections ~~(PDP contexts)~~, can separate data flows in accordance with the data flow-specific
information so that these data flows can be subject to data flow-specific handling in the processing
unit ~~(IP flow handler)~~.